



Chemical Hazards
Communication Society

Training - Module 2

Basic Chemistry (for non-chemists)



For [date and venue](#)
please see that section of
this web-site

Registration 09.00
Start 09.30
Close 16.30

MODULE 2 – BASIC CHEMISTRY

This module is intended for persons involved in chemical hazard communication and related activities who have little, or no, chemical background but need to understand the basic relationship between chemicals, how to recognise them and understand their properties. Covering the essential needs for application to chemical hazard communication, this basic chemistry module has been developed to give delegates sufficient chemical knowledge to assist them in undertaking their duties.

NOTE: It is not like an 'O' level chemistry course, but concentrates on what is needed for industrial application. Since chemistry is often looked on as a foreign language; an analogy could be a 'get by in French' course.

Who should attend?

The module is specifically aimed at Safety Data Sheet writers, but will also be useful for prospective Dangerous Goods Safety Advisers (DGSAs), those doing COSHH assessments, general Health and Safety professionals, sales and other office personnel of chemical companies.

NB: The course does not cover actual handling of chemicals.

Benefits of attending

Attendance on this series of modules will ensure that **your** SDSs meet the increasing expectations of both your customers and the regulators. To ensure the most effective training with optimum involvement in participative exercises, there will be a limit on the number of students.

IOSH members are entitled to include this module in their continuing professional development records.

Comments from previous delegates on this training module

“Good insight into basics of chemicals, good practical training for non-chemists.”

“Simply explained for chemistry beginners!”

“Clear, concise & appropriate material for the course”

“The training was fun and an education. Kept the interest level throughout.”

What you will learn

The course will cover the following aspects:

- Chemical Terms, Chemical symbols and periodic table.
- Chemical naming.
- Physical properties:
Why physical properties dictate how something is handled.
Important physical properties of chemicals.
- Chemical Properties:
Inorganic, Organic
Functional groups – alcohols, ethers, etc.
Acid, Base, pH and corrosivity.
Explosives and oxidisers.
- Reactions:
Normal, dangerous, self-accelerating reactions, initiation and neutralisation.
Incompatible chemicals.

Delegates will be provided with extracts from CLP Annex VI Table 3.2.

Module Tutor

This module will be given by Dr Stuart Longworth. After over 30 years of experience with multinational chemical companies in research and regulatory affairs, Stuart is now a health and safety consultant, specialising in areas related to safety data sheets and chemical regulatory legislation. He has a lot of experience in the preparation and assessment of Safety Data Sheets, and ran the earlier highly successful series of 1 day courses on Introduction to Writing SDSs. He also teaches other Modules in this series as well as this one, and was extensively involved in the CHCS assessments of the accuracy of supplied SDSs, which clearly showed the need for training such as this.